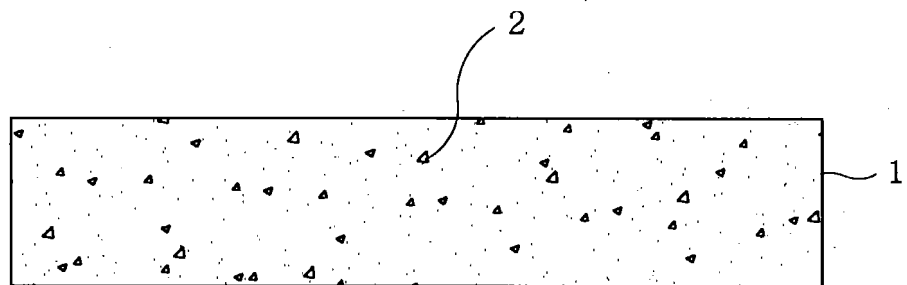


***FIG. 1***



## FIG.2A

1) COLIFORM

( CFU /ml)

	SPECIFICATION OF SAMPLE		CULTIVATION TIME		REDUCTION RATE(%)
			0 Hour	24 Hour	
Blank			$1.8 \times 10^5$	$6.8 \times 10^6$	
#1	15nm-50ppm	①	$1.8 \times 10^5$	< 10	99.9
		②	$1.7 \times 10^5$	< 10	99.9
#2	15nm-200ppm	①	$1.8 \times 10^5$	$1.4 \times 10^4$	99.8
		②	$1.7 \times 10^5$	$1.4 \times 10^4$	99.8
#3	15nm-500ppm	①	$1.8 \times 10^5$	$1.4 \times 10^4$	99.8
		②	$1.7 \times 10^5$	$1.4 \times 10^4$	99.8
#4	50~80nm-50ppm	①	$1.8 \times 10^5$	$1.4 \times 10^4$	99.8
		②	$1.7 \times 10^5$	$1.4 \times 10^4$	99.8
#5	50~80nm-200ppm	①	$1.8 \times 10^5$	$1.4 \times 10^4$	99.8
		②	$1.7 \times 10^5$	$1.4 \times 10^4$	99.8
#6	50~80nm-500ppm	①	$1.8 \times 10^5$	< 10	99.9
		②	$1.7 \times 10^5$	< 10	99.9

CFU: Colony Forming Unit

# FIG.2B

2) STAPHYLOCOCCUS

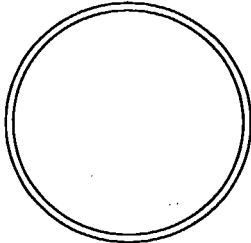

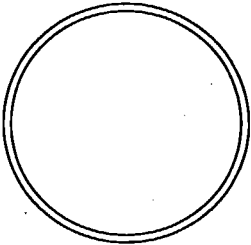
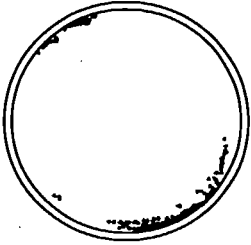
( CFU /mL)

	SPECIFICATION OF SAMPLE		CULTIVATION TIME		REDUCTION RATE(%)
			0 Hour	24 Hour	
Blank			$1.5 \times 10^5$	$6.4 \times 10^6$	
#1	15nm-50ppm	①	$1.5 \times 10^5$	$2.6 \times 10^4$	99.6
		②	$1.4 \times 10^5$	$3.2 \times 10^4$	99.5
#2	15nm-200ppm	①	$1.5 \times 10^5$	$1.9 \times 10^4$	99.7
		②	$1.4 \times 10^5$	$1.9 \times 10^4$	99.7
#3	15nm-500ppm	①	$1.5 \times 10^5$	$1.3 \times 10^4$	99.8
		②	$1.4 \times 10^5$	$1.3 \times 10^4$	99.8
#4	50~80nm-50ppm	①	$1.5 \times 10^5$	$3.8 \times 10^4$	99.4
		②	$1.4 \times 10^5$	$4.5 \times 10^4$	99.3
#5	50~80nm-200ppm	①	$1.5 \times 10^5$	$1.9 \times 10^4$	99.7
		②	$1.4 \times 10^5$	$1.9 \times 10^4$	99.7
#6	50~80nm-500ppm	①	$1.5 \times 10^5$	$1.3 \times 10^4$	99.8
		②	$1.4 \times 10^5$	$1.3 \times 10^4$	99.8

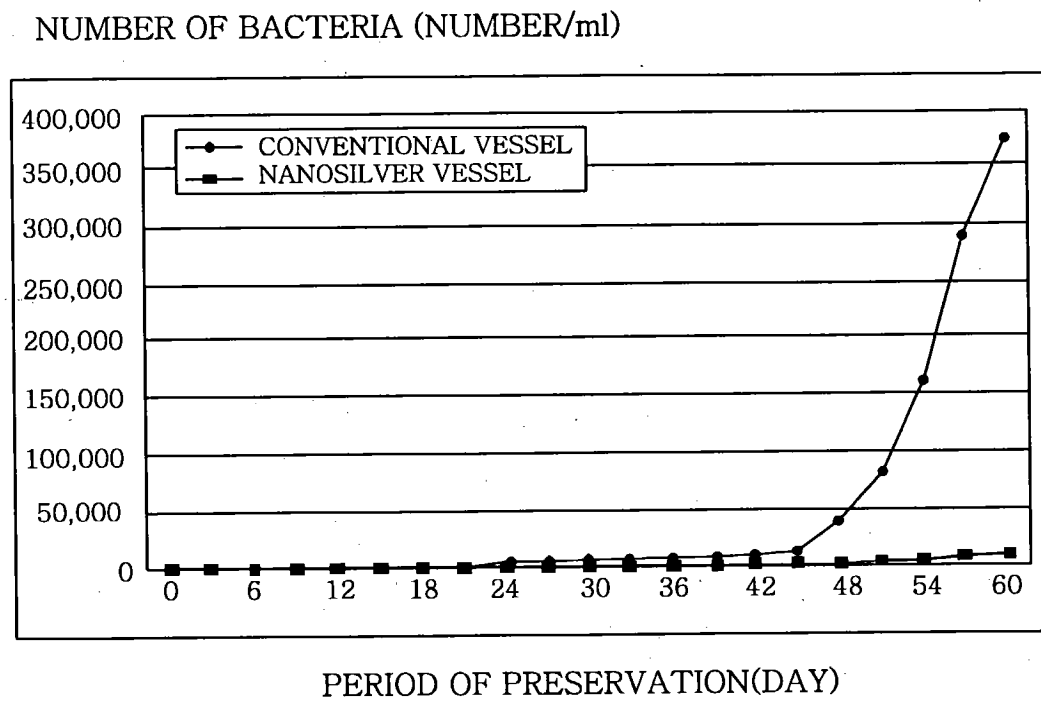
CFU: Colony Forming Unit

**FIG.3A**

MacConkey AGAR MEDIUM CULTIVATION OF BACTERIA (TANGERINE)

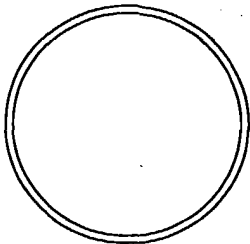

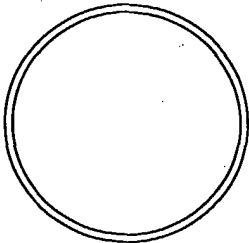
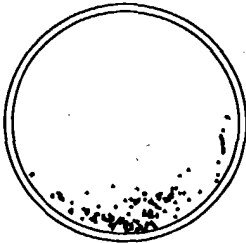
	INITIAL STATE	AFTER 60 DAYS	NUMBER OF BACTERIA (NUMBER /ml)
CONVENTIONAL VESSEL			$3.7 \times 10^6$
NANOSILVER VESSEL			$9.1 \times 10^3$

**FIG.3B**



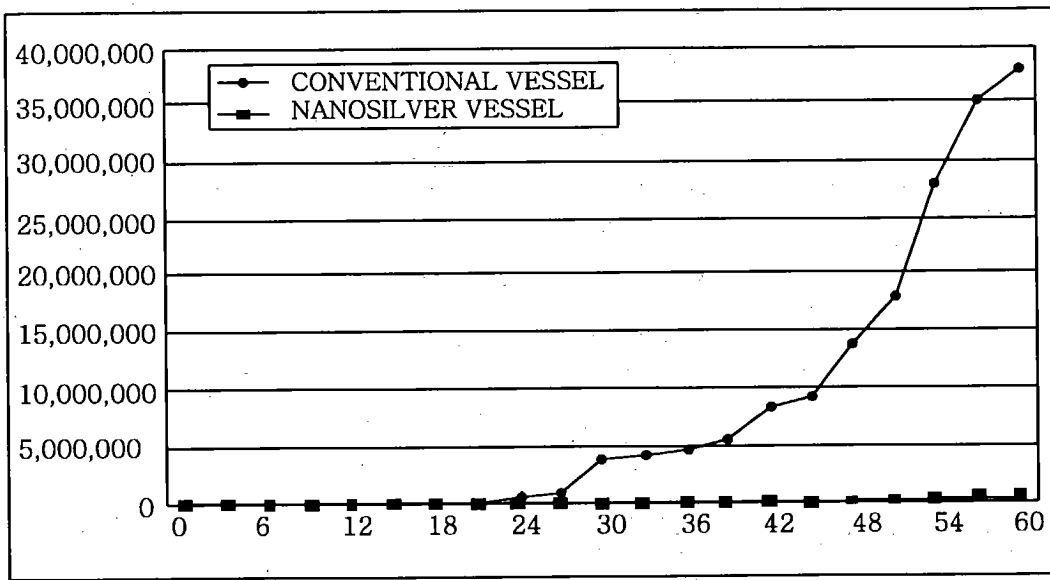
**FIG. 4A**

MacConkey AGAR MEDIUM CULTIVATION OF BACTERIA (MEAT)

	INITIAL STATE	AFTER 60 DAYS	NUMBER OF BACTERIA (NUMBER /ml)
CONVENTIONAL VESSEL			$3.8 \times 10^7$
NANOSILVER VESSEL			$5.8 \times 10^5$

**FIG.4B**

NUMBER OF BACTERIA (NUMBER/ml)



PERIOD OF PRESERVATION(DAY)